MEDIUM VOLTAGE CABLE

# Three Conductor 15kV 133%/100% Shielded MV-105

## APPLICATION:

15kV Shielded MV-105 cable is primarily used for power circuits in commercial, industrial, refinery and petro-chemical plants; utility power generation and substations. The cable can be used in wet or dry locations when installed in accordance with NEC as well as cable trays, duct, open air and direct burial installations. The cable has excellent heat, moisture and sunlight resistance. The cable meets the cold bend test at -35°C and is approved for temperatures up to 105°C wet or dry.

## CONDUCTORS:

- Class B annealed compact bare copper per ASTM

## CONDUCTOR SHIELD:

- Extruded thermoset semi-conducting stress-control layer over conductor

## INSULATION:

- High dielectric strength lead-free EPR insulation, contrasting in color to the black semi-conducting shield layers

## INSULATION SHIELD:

- Extruded thermoset semi-conducting polymeric layer free stripping from insulation

## METALLIC SHIELD:

- Helically applied 5 mil annealed copper tape over the insulation shield with an overlap of 25%
- Color ribbons in each phase for identification for sizes 2 AWG and above (standard: black-red-blue)

## GROUND CONDUCTOR:

- Uninsulated bare stranded copper conductor may be in contact with metallic shielding tape

## ASSEMBLY:

- Three phase identified shielded conductors cabled with fillers and grounding conductor (as specified), forming a firm and cylindrical cable core. A binder tape is applied over the core

## JACKET:

- Black low-friction, lead-free, flame-retardant, moisture and sunlight resistant polyvinyl chloride (PVC) jacket applied over the assembly

## STANDARDS:

Meets or exceeds the following standards as applicable:

- UL 1072 Listed sunlight resistant, direct burial and for CT use
- UL 1685 Flame Test (70,000 BTU/hr)
- UL Listed as Type MV-105 for use in accordance with NEC
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- EPA 40 CFR, Part 261
- OSHA Compliant

#2180-04

RoHS COMPLIANT

1-800-945-5542
www.PriorityWire.com

PRIORITY WIRE & CABLE, INC.

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| Part Number | Conductor Size | Conductor Diameter | Insulation Diameter | Ground Wire | Jacket Thickness | Overall Diameter | Cable Weight | Ampacity | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 105°C in Air* | 105°C in Duct** | 105°C in Tray*** |
| | AWG/kcmil | inches | inches | AWG | inches | inches | lbs/kft | amps | amps | amps |
| **15 kV 133% INS. LEVELS, TYPE MV-105, 220 MILS, 3 CONDUCTOR** | | | | | | | | | | |
| 2-0315KVSEPG | 2 | 0.27 | 0.793 | 6 | 0.110 | 2.04 | 2226 | 165 | 160 | 185 |
| 1/0-0315KVSEPG | 1/0 | 0.34 | 0.850 | 4 | 0.110 | 2.20 | 2811 | 215 | 210 | 240 |
| 2/0-0315KVSEPG | 2/0 | 0.38 | 0.890 | 4 | 0.110 | 2.30 | 3163 | 245 | 235 | 275 |
| 4/0-0315KVSEPG | 4/0 | 0.48 | 0.995 | 3 | 0.110 | 2.52 | 4203 | 320 | 305 | 360 |
| 350-0315KVSEPG | 350 | 0.62 | 1.100 | 2 | 0.110 | 2.94 | 6182 | 430 | 400 | 490 |
| 500-0315KVSEPG | 500 | 0.74 | 1.200 | 1 | 0.140 | 3.21 | 7686 | 525 | 485 | 600 |
| 750-0315KVSEPG | 750 | 0.91 | 1.430 | 1/0 | 0.140 | 3.61 | 10978 | 635 | 585 | 745 |

*All values are nominal and subject to correction*
**Ampacities are in accordance with NEC table 310.60(C)(75), Type MV-105, 5001-35000 Volts, for tray or conduit in air.*
***Ampacities are in accordance with NEC table 310.60(C)(79), Type MV-105, 5001-35000 Volts s, for underground duct, one circuit.*
****Ampacities are in accordance with NEC table 310.60(C)(71), Type MV-105, 5001-35000 Volts, for in air (tray).*



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